EXAMPLE, I. Data on the recurrence and the progression of Dupuytren's contracture. Acta chir. plast. 5 no.4:253-259 '63. 1. Department of Plastic Surgery, Pakats-ter Hospital, Budapest (Hungary). (SKIN TRANSPLANTATION) KARTIK, I.

KARTIK, Ilona, dr.

Therapy of Dupuytren's contracture. Orv. hetil. 97 no.13:
345-348 25 March 56.

1. A Fovarosi Xun-utcai Korhaz Plasstikai Sebeszeti Osztalyanak (korhazi igasgato foorvos: Ercsy, Miklos dr.) Kozlemenye.

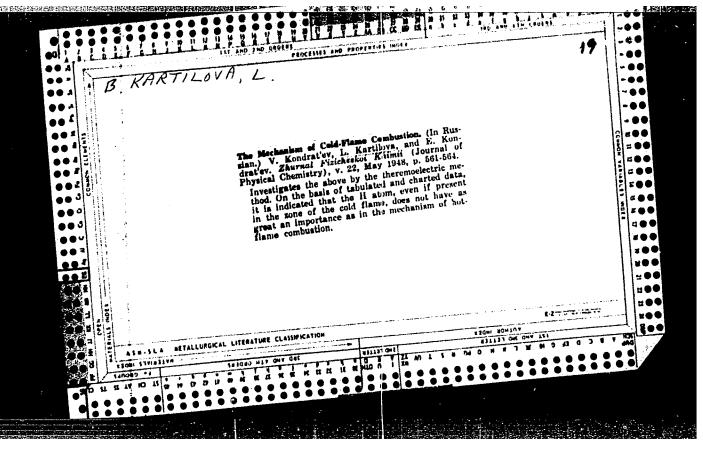
(DUPUYTREN'S CONTRACTURE, surg.

aponeurectomy, indic., technic & results. (Hun))

Camptodactylia. Orv. hetil. 99 no.47:1652-1655 23 Nov 58.

1. A Fovarosi Kun-utcai Korhaz (mb. igazgato: Biro Sandor dr.) Plasstikai Sebeszeti Osztalyarak (foorvos: Zoltan Janos dr.kandidatus) koslemenye.

(FINCKES, dis. camptodactylia (Hun))



211

23

36765 s/081/62/000/001/059/067 B162/B101

Vaynshtok, V. V., Kartinin, B. N., Karakash, S. I., Avchina,

S. A.

TITLE:

Investigation of lithium greases thickened with scaps of

natural and synthetic acids

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 1, 1962, 448, abstract 1M171 (Tr. Mosk. in-t neftekhim. i gaz. prom-sti, no. 32, 1960, 11 - 26)

TEXT: It is established that the cooling methods used in the production of Li greases do not make it possible to control the process of crystallization of the thickener and lead to the production of low-quality products with a polydisperse structure. Greases thickened with technical stearate of Li, obtained by isothermic crystallization at 130°C possess optimum properties and are characterized by a structure formed of elementary particles of uniform shape and size. High-quality greases can be produced with Li-soaps of technical 12-hydroxystearic acid, and also with Li-soaps of synthetic C₁₀ - C₁₆ and C₁₀ = C₂₁ carboxylic acids, the

Card 1/2

Card 2/2

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000720920004

32337 S/081/61/000/024/073/086 B151/B101

11.9400

also 1583

Vaynshtok, V. V., Kartinin, B. N., Karakash, S. I.

TITLE:

AUTHORS:

The effect of additions of lead soaps on the structure and

properties of lithium greases

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 24, 1961, 471 - 472, abstract 24M97 (Tr. Mosk. in-t neftekhim. i gaz. prom-sti, no. 32, 1960, 27 - 40)

TEXT: It has been found that the optimum temperature of crystallization of Li soap in the preparation of greases is $110^{\circ}\mathrm{C}$. However, at this temperature it is not possible to prepare greases containing lead soaps, the crystallization of which proceeds below room temperatures. In these conditions it is possible to obtain lithium-lead greases. The addition of Pb stearate to greases thickened with Li stearate lowers their dropfall temperatures. The colloidal stability of the greases firstly drops (on the introduction of up to 20% Pb stearate, based on the soap thickener) and then improves again. The limiting shear stress drops at

Card 1/2

32337 S/0E1/61/000/024/073/086 B151/B101

The effect of additions of ...

first (up to 30% Pb stearate), then rises (40% Pb stearate) and then drops again (50% Pb stearate). The viscosity of Li greases shows little effect from the introduction of Pb stearate. The mechanical stability of the greases, evaluated by the change in residual limiting shear stress after their breakdown in a mixer using a penetrometer, drops with increasing concentration of lead soap. The preparation of Li greases containing more than 50% Pb stearate was not possible, although greases thickened with Pb stearate only were obtained. Examination with an electron microscope showed that the structure of the Li soap changes on the addition of Pb stearate to the grease. Similarly, the dimensions and form of the crystallites of the lead soap depend on the relative proportion of Li stearate present in the grease. [Abstracter's note: Complete translation.]

Card 2/2

32336 S/081/61/000/024/072/086 B151/B101

11.9400

AUTHORS:

also 1583

Vaynshtok, V. V., Kartinin, B. N., Avchina, S. A., Levento,

Combination of lithium and aluminum soaps in consistent TITLE:

greases

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 24, 1961, 471, abstract

24M96 (Tr. Mosk. in-t neftekhim. i gaz. prom-sti, no. 32,

1960, 41 - 52)

TEXT: The optimum temperatures of isothermal crystallization of soft greases containing mono- and distearates of Al are 120 and 80°C, respectively. In these conditions the greases have their highest viscosity, limiting shear stress and drop-fall temperature, etc. For the same weight concentrations a greater thickening effect is exhibited by the distearate while for equal molecular concentrations by the monostearate of Al. The temperature dependence of the volume-mechanical properties of the greases thickened with Al distearate is much more pronounced than with greases thickened with Al monostearate. For studying

Card 1/2

CIA-RDP86-00513R000720920004-7" APPROVED FOR RELEASE: 06/13/2000

Combination of lithium and ...

32336 S/081/61/000/024/072/086 B151/B101

the effect of additions of Al soap on the properties of Li greases. Al monostearate was chosen, giving the best characteristics of the greases. Besides this, the optimum temperatures of crystallization of Li stearate (110°C) and Al monostearate (120°C) are close to each other. The introduction of Al soaps into Li greases lowers their viscosity, When the ratio of Al monostearate to Li soap was increased up to 3:1 or that of Al distearate to Li stearate up to 1:1, it was not possible to prepare the greases. The joint crystallization of Al and Li soaps, as shown by examination with an electron microscope, is considerably of monostearate and 25% of Al distearate) there occurs a considerable reduction in the dispersion of the Li stearate crystallites.

[Abstracter's note: Complete translation.]

Card 2/2

KARTININ, B.N. 31565 8/081/61/000/022/061/076 15-6600 3101/B147 Vaynshtok, V. V., Bondarevskiy, G. D., Gekker, I. S., Kraskovskaya, M. I., Kartinin, B. N. 11.9700 AUTHORS: Multifunctional additives to lubricants based on natural and TITLE: synthetic ether acids PERIODICAL: Referativnyy zhurnal. Khimiya, no. 22, 1961, 396 - 397, abstract 22M121 (Tr. Mosk. in-t. neftekhim. i gaz. prom-sti, no. 32, 1960, 53 - 67) TEXT: Investigations of multifunctional additives showed that ramified structures were characteristic of synthetic ether acids (mixture of esters and compounds containing a lactone or lactide group besides free carboxyl or hydroxyl groups) formed during oxidation of ceresin wax (MHM-7 (KHI-7) or njurcity groups; formed during exidation of deresin wax (MMM-7 (MMI-7) additive) or petrolatum (MHM-5 (MNI-5) additive). They contain several active groups (COOH, OH, COOR, where R= hydrodarbon radical) in the molecule. Thus, they are capable of increasing the antiwear, adhesive, and anticorrective apparation of the several anticorrective apparation of the several active properties. and anticorrosive properties of oils and hydrocarbon lubricants, and of lowering their solidification point. Similar properties were found for Card 1/2

S/081/65/000/022/061/076

Evaluational additives to...

S/081/65/000/022/061/076

BD01/0147

Multifunctional additives to...

natural ether acida contained in the residue of wool grease after extractions of lanolin from degras by compressed hydrocarbon gases. Such recidues tion of lanolin from degras by compressed hydrocarbon gases. Such recidues tion of lanolin from degras by compressed hydrocarbon gases. Such recidues tion of lanolin from degras by compressed hydrocarbon gases. Such recidues tion of lanolin from degras by compressed hydrocarbon gases. Such recidues to several such recidues to several such recidues to several such recidues the recidues and look like oxidized particular for facts of each particular for the such recidues the recidues the such recidues to several such recidues to several such recidues the such recidues to several such recidence to several such r

323110 8/081/61/000/024/076/086 B151/B101

11.9400 also 1583 Vaynshtok, V. V., Kartinin, B. N.

TITLE:

AUTHORS:

Thixotropic properties of consistent greases

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 24, 1961, 472, abstract 24M100 (Tr. Mosk. in-t neftekhim. i gaz. prom-sti, no. 32,

1960, 116-129)

TEXT: A study of the mechanical stability of soft greases was carried out by breaking them down in a mixer, using a penetrometer with a mechanical drive, and by measurement of the residual shear stress (θ_{nr}) , both

straight after breakdown as well as after a prolonged resting period (up to 2,000 hours). It was shown that, in a number of cases, what was measured was the power spent in breaking down the greases and the liberation of heat during the grease mixing process. For characterizing the breakdown of the structure, electron microscope technique was used. It has been shown that the breakdown of the spap-thickened fats increases with the degree of deformation. With synthetic greases the opposite

Card 1/2

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5/081/61/000/024/074/086 B151/B101

11.9400 also 1583

Avchina, S. A., Karakash, S. I., Kartinin, B. N. AUTHORS:

TITLE:

A method for evaluating the limiting shear stress of consistent grease with an MHM -2(MNI-2) plastometer

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 24, 1961, 472, abstract 24M98 (Tr. Mosk. in-t neftekhim. i gaz. prom-sti, no. 32,

1960, 141 -151)

TEXT: The operating unit of this apparatus for determining the limit of solidity (limiting shear stress), τ_{nr} , of soft greases consists of two

parallel immovable plates, between which there is located a third plate, joined to a balance beam. The grease under test is smeared between the plates, the surface of which is covered with grooves to prevent slippage ' at the walls. Onto the second balance beam is fixed a cup, into which water is poured at a fixed rate. As the water gradually fills the cup, the load on the plate increases and the plate moves in the grease. The construction of the apparatus allows one to find beforehand the amount

Card 1/2

CIA-RDP86-00513R000720920004-7" **APPROVED FOR RELEASE: 06/13/2000**

A method for evaluating the ...

32338 S/081/61/000/024/074/086 B151/B101

of displacement of the plate at which the contacts of a relay are closed and the filling of the cup with water ceases. The weight of the cup with the water at this moment corresponds to the load on the plate at which a given displacement of the plate in the grease takes place. By relating the load to the area of contact between the plate and the grease, The of the grease can be calculated. The magnitude of the path of displacement of the plate is chosen by 30% - 40% higher than the limiting value of the elastic deformations (found by preliminary experiments). For Li and Ca greases this value is usually 0.1 - 0.12 mm, and for hydrocarbon greases 0.05 - 0.06 mm. The reproducibility of parallel determinations for the measurement of The reproducibility of the mean.

[Abstracter's note: Complete translations]

Card 2/2

CHERNOZHUKOV, N.I.; VAYNSHTOK, V.V.; KARTININ, B.N.

Submicrostructure of solid hydrocarbons in a hydrocarbon medium. Izv. vys. ucheb. zav.; neft' i gaz 4 no.8:83-86 161.

(MIRA 14:12)

1. Moskovskiy institut neftekhmicheskoy i gesovoy promyshlennosti imeni akademika I.M. Gubkina.

(Hydrocarbons - Analysis)

CHERNOZHUKCV, N.I.; VAINSHTOK, V.V.; KARTININ, B.N.

Crystal submicrostructure of solid hydrocarbon mixtures in a hydrocarbon medium. [2v. vys. usheb. zev.; neft' i gaz 5 no.11:53-57 '62. (MIRA 17:6)

l. Moskovskiy irstitut neftekhimicheskoy i gazovoy promyshlennosti imeni akademika Gubkina.

41921

5/065/62/000/011/004/006

E075/E436

11.9400 AUTHORS:

Sinitsyn, V.V., Kartinin, B.N.

TITLE:

Electron microscope investigation of the structure of

soda greases based on the soaps of synthetic fatty

PERIODICAL: Khimiya i tekhnologiya topliv i masel, no.11, 1962,

62-66

The authors investigated for the first time the structure of greases containing sodium soaps of synthetic fatty acids as thickeners. The acids were distilled into several fractions (C_{11} to C_{22}), the soaps of which were studied separately. It was established that the structure of the greases thickened with soaps of the acid fractions up to c_{20} essentially do not differ from the greases thickened with sodium soaps of the corresponding natural The presence of admixtures (oxidation by-products) fatty acids. increases the dispersion of the thickener particles. the particles could not be resolved by the electron-microscope used. Increasing the average molecular weight of the acid fractions leads to higher dispersion, viscosity, hardness and mechanical stability Card 1/2

Electron microscope ...

\$/065/62/000/011/004/006 E075/E436

of the greases. It was shown that in greases based on the end fractions of the acids (C₁₈ - C₂₂) and the residual acids the thickener is highly dispersed. Such greases have poor thermal stability and gel at 100 to 120°C. The same applies to soaps of acids "C17 - C20" produced industrially. There are 3 figures.

Card 2/2

33540

S/069/62/024/001/002/003 B119/B101

1583

//. 9400 AUTHORS: Sir

Sinitsyn, V. V., Aleyeva, Ye. V., Kartinin, B. N. (Moscow)

TITLE:

Effect of free alkalis and acids on structure and properties of plastic greases thickened with Na soaps

PERIODICAL: Kolloidnyy zhurnal, v. 24, no. 1, 1962, 75 - 79

TEXT: Investigations were conducted on four lubricating greases whose alkalinity (up to 0.16% NaOH) or acidity was varied (with stearic acid up to an acid number of 1.2 mg KOH/g of grease). Production of the lubricating greases: Soap produced from stearic acid according to FOCT 2074-51 (GOST 2074-51) and NaOH was suspended at 10% in low-viscosity MK-8 (MK-8) oil according to FOCT 6457-53 (GOST 6457-53), heated to 200°C, and cooled down rapidly (grease 1) or slowly during 4 hrs (grease 2). Greases 3 and were produced in the same manner with spindle oil - 3 according to FOCT 707-51 (GOST 1707-51). Alkali, or stearic acid, was admixed to the soap. Investigations: Electron microscopic studies on an 3M-3 (EM-3) apparatus; shearing strength determination on a K-2 (K-2) plastometer according to FOCT 7143-54

Card 1/3

33540 s/069/62/024/001/002/003 B119/B101

Effect of free alkalis and acids ...

(GOST 7143-54); colloidal stability determination on a K(A(KSA) apparatus according to POCT 7412-54 (GOST 7412-54) based on the quantity of oil squeezed out of the grease; acidity or alkalinity determination by titration of the alcohol-water extract from the petroleum ether-grease solution according to POCT 6707-57 (GOST 6707-57). Results: The size of Na stearate particles dispersed in oils strongly decreases with decreasing acidity and increasing alkalinity of the system; the dispersion degree increases and, with it, the shearing strength (1 g/cm^2 , with acid number 1.2 mg KOH; 3 g/cm^2 , neutral; 12 g/cm^2 , with 0.16% NaOH), as well as the colloidal stability (28.1% of oil is squeezed out of grease 2 with acid number 1.2 mg KOH; 13.3.% of oil, out of the same grease with 0.03% NaOH; 12.4%, from grease 1 with 0.07% NaOH; 26.0%, with neutral reaction). Differences in the viscosity of the initial oil, and in the cooling rates during the production, show much lower effects. Certain rules hold for all lubricating greases thickened with soaps (Li soaps). These results show that the tolerance of the NaOH content in Na greases (e.g., Konstalin, HK -50 (NK-50)), fixed at 0 - 0.2% by the standard specifications, is too large. There are 5 figures, 1 table, and 6 references:

Card 2/3

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000720920004-7"

VAYNSHTOK, V.V.; KARTININ, B.N.; KARAKASH, S.I.

Lead soaps as modifiers of the structure of lithium oils. Trudy MINKHiGP no.37:185-199 162.

Grease on a base of lead and aluminum soaps. Ibid.:200-214 (MIRA 17:3)

S/152/63/000/003/002/005 B117/B186

AUTHORS: Fauzi, M. A., Kartinin, B. N., Chernozhukov, N. I.

TITLE: Effect of deparaffination conditions on the crystallization character of solid hydrocarbons of residual oil

PERIODICAL: Izvestiya vysshikh uchebnikh zavedeniy. Neft' i gaz, no. 3, 1963, 59-64

TEXT: The conditions of deparaffination were studied for the residual refined product ($d_4^{20} = 0.8865$, $\nu_{100^{90}} = 14.91$ cm³ (c. c.?), solidifying point +51°C, coking capacity 0.3%) of Tuymazy petroleum; solvent: toluene mixtures with 20-60% acetone, or 40-80% MFK (MEK); weight ratio oil: solvent 1:3, 1:4, 1:5, heating up to 60°C; filtration temperature -25°C; cooling rate 40-200°C/hr. Results: with increasing ketone concentration, the yield of deparaffined oil was reduced, the filtration accelerated, and the solidifying point of the oil lowered. Toluene mixtures with 40% acetone or 60% MEK were found to be optimum solvents. Electron-microscopic pictures (made for the first time for crystals of Card 1/3

Effect of deparaffination conditions on ... B117/B186

hexagonal structure) showed that an increase in ketone concentration led to the formation of larger, well structured crystals of solid hydrocarbons. This resulted in a nigher permeability of the precipitate, which accelerated the filtration and made it easier to separate the liquid from the solid phase. An increase in the cooling rate (from 40 to 90°C/hr) led to the formation of smaller crystals, which unfavorably affected the filtration and the yield of deparaffined oil. A further increase of the cooling rate (up to 200°c/hr) had no effect on the size of crystals. Therefore the mean cooling rate should not exceed 60°C/hr; a rate of about 40°C/hr is recommended for the beginning of crystallization, followed by a faster cooling at the final stage. Repeated dilution of the raw material favorably affects the microstructure of solid hydrocarbons; less viscous liquids produce larger, well shaped crystals effecting an accelerated filtration and higher yields of the deparatfined oil. temperature gradient is impaired by higher solubility of solid hydrocarbons with increasing solvent content. Addition of the solvent in portions is not expedient as it makes the oil more consistent during the cooling, thus retarding the crystallization process. There are 12 figures and Card 2/3

ASSOCIATION:	Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti im. akad. I. M. Gubkina (Moscow Institute of Petrochemical and Gas Industry imeni Academician I. M. Gubkin)		
SUBMITTED:	June 23, 1962		
	요형 성명, 10분명, 20분명, 20분명 전에 하는 경기를 받는 것이 되었다. 한다는 사람들은 사람들은 기계 기계를 하는 것이 되었다.		
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Card 3/3			

FAUZI, Mokhamed; KARTININ, B.N.; CHERNOZHUKOV, N.I.

Effect of the depth of phenol purification of residual oil on the characteristics of dewaxing. Izv. vys. ucheb. zav.; neft' i gaz 6 no.8:61-64 '63. (MIRA 17:6)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti imeni akademika I.M. Gubkina.

SINITSYN, V.V.; MAN'KOVSKAYA, N.K.; ALEYEVA, Ye.V.; KARTININ, B.N.

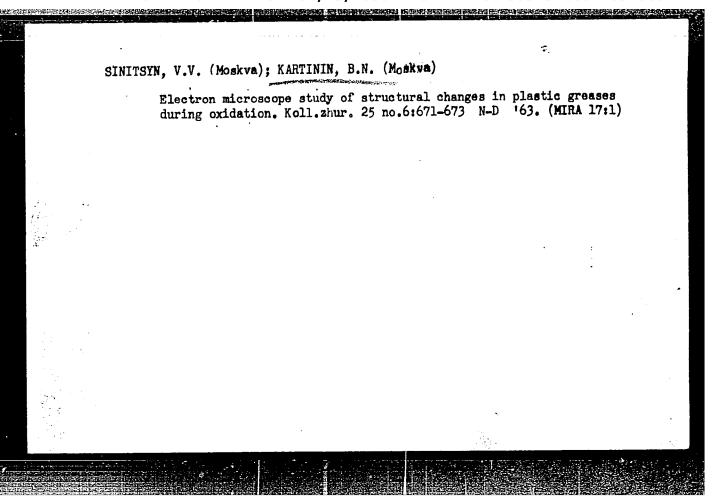
Effect of the structure of synthetic carboxylic acids on the structure and properties of plastic sodium greases. Neftekhimiia 3 no.1:128-134 Ja-F '63. (MIRA 16:2)

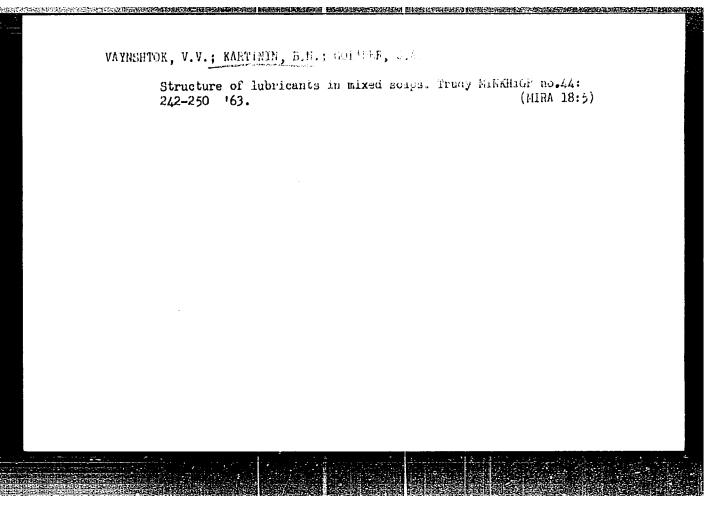
1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti imeni I.M. Gubkina.
(Lubrication and lubricants)
(Acids, Organic)

FAUZI, Mokhamed; KARTININ, B.N.; CHERNOZHUKOV, N.I.

Effect of certain depressants on the nature of the crystallization of solid hydrocarbons in the dwaxing of residual raffinates. Izv.vys.ucheb.zav.; neft' i gaz 6 no. 12:61-63 '63. (MIRA 17:5)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti im. akademika I.M.Gubkina.





L 2100-05 EMT(m)/EPF(c)/K/EPR/T/EWP(q)/EWP(b) Pr-4/Ps-4 AS(mp)-2/AFWL/ SSD/ESD(gs)/ESD(t) WW/DJ/WH ACCESSION NR: AP4042329 S/0065/64/000/007/0059/0065

AUTHOR: Fuks, I. G.; Vaynshtok, V. V.; Chernozhukov, N. I.; Kartinin, B. N.

TITIE: Fillers as components of thickened lubricants.

SOURCE: Khimiya i tekhnologiya topliv i masel, no. 7, 1964, 59-65

TOPIC TAGS: lubricant, lubricant filler, thickened lubricant, lithium lubricant, hermetic property, filler mechanism, yield value, particle size, inert filler, active filler, chemically reactive filler, amorphous lubricant, crystalline lubricant, fibrous lubricant structure, colloidal stability, molecular structure

ABSTRACT: The effect of fillers on the structure and properties of thickened lithium lubricants was investigated in order to obtain data on the mechanism of the action of the fillers and to study the possibility of increasing the hermeticity of the lubricants. Castor oil with 20 weight # lithium ricinoleate, and 5, 10, 15 and 30 wt. f of mica, graphite, chemically pure TiO₂ and orides of lead, magnesium, zinc, iron and aluminum was used for the investigation. The fillers were added to the lubricant while it was held at 205-210C for 15 minutes. Hermeticity was determined by the maximum pressure that the lubricant could withstand and

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ACCESSION NR: AP4042329

by the number of opened-closed stopcock cycles at 25-200 atmospheres before the seal was broken. It was concluded that the yield value obtained could be used as a basic laboratory index of the operating properties of the thickened lubricants. The nature of the filler and its particle size and concentration affect the yield value. The inert filler, graphite, did not change the molecular structure of the soap but increased the yield value approximately proportionally to its concentration. The particle size of the graphite changed the yield value only slightly. The active fillers TiO2, Al2O3, Fe2O3 and mica did not affect the strength of the soap but raised the yield point much less than graphite. The effect of the particle size of this type of fillers on the yield value was significant. It was found that the finer particle material (35-50 micron) increasing the yield values much more than the larger particle filler (100-120 micron). The colloidal stability of the lubricant with micalwas higher than with graphite. The chemically reactive fillers ZnO, MgO and PbO significantly lowered the yield value even at 5-10% concentrations, lowered the drop point 35-40 degrees, affected the colloidal stability and changed the structure of the lubricant from crystalline to amorphous (MgO and PbO) or fibrous (ZnO). Orig. art. has: 4 figures and 3 tables.

ASSOCIATION: MINKL 1 GP

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ACCESSION NR: AP4037174

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AUTHOR: Vaynehtok, V. V.; Kartinin, B. N.; Gol'der, G. A.

TITLE: The structure of soaps modified by additions of lead and abusinum stearate

SOURCE: Kolloidny*y zhurnal, v. 26, co. 3, 1964, 290-295, and insert facing p. 290

TOPIC TAGS: soap oil dispersion structure, soap electrommiscroscopy, soap x ray, lithium stearate, lead stearate, eluminum stearate, eutectic mixture, lead stearate crystal, crystal, crystal aggregate, eluminum lithium stearate crystal, jointly dispersed particle

ABSTRACT: The authors studied the crystallization of lithium stearate added with other stearates, widely used in the manufacture of lubricating greases (scap-oil dispersions), and conducted electromaiscroscopic and x-ray studies of individual scaps, their melts and the scap-oil dispersions prepared on their losis. Experimental specimens were prepared by suspending the scap powder or grease in petro-leum ether. The results are photographed, tabulated and figured. While the powdered scaps differed little in their aspect, these of the greases had specific structures depending upon the scap cation, crystallization conditions and

Card 1/3

ACCESSION NR: AP4037174

thickener composition. The lead-stearate based gresses showed aggregates of the lead stearate lemellae with a low degree of anisodiametricity, due to poor solubility and thickening ability of such soaps. Aluminum and lithium stearate together formed distinctly shaped combined crystals (to 25% mol.% of aluminum soap). Increase of aluminum soap concentration caused a decrease of colloidal stability and rheologic indicators. No combined crystals were formed by load and attendings. X-ray studies of these stearates, their melts and the binary greate specimens gave sharp diffraction, with the exception of altestaum scaps. Data on interplener distances and line intensity are presented. The lines of the greases were less pronounced than those of the starter sours. The medifying effect of lead and aluminum steerate on the structure formed in 1d checkete-based grease lad to the formation of joint dispersed particles at a 10-30% notif addition, and the destruction of the structure at 30-50% mol.%. These dispersed particles are extentic mixtures. Lead and aluminum stearates applied to greaces in combination with dispersed particles did not four ctrustures and provented ordered connecture if either was contained in the thickener in more than 10-15 mol. F. Under conditions of crystallization at room temperature stable groupes can be obtained only by neutral lead stearate combined with aluminum mono- or distearate in no more than

Card, 2/3

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20-30 mol. separately	concentration.	lithium, lead and aluutectic mixtures. Orig	minum stearates cryscal art. has: 3 tables a	Mased
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CCESSION NR:	ಕ್ಷಣದ ಕ್ರೀಡಿಕೆ ಸಿಸಿ ಎಂದು ಈ ಸರ್ವಿಸಿ ಎರಡುವುದ ಸುವಿತ್ಯ ಕ್ರೇಡಿ ಆ ಮೇಲಿಸಿ ಸಿನಿಯಿಂದ ಕೆಲ್		enin. B. K.	16
TTLE: Effect structure of h	teyn, V. V.; Ishch of the degree of ydrated Ca-sosp is	saturation of the greases when	e fatty soid redi	
	idnyy shural i Y.		は異点の場合におすべき 東北 経点の べいけい	
ABSTRACT: The structure of leffect of une fibers, two seared and the and mixtures acid radical Intertwined for given ratio	ir mixtures, and to of the two. It was a marked influiters in the atru- of saturated to to of saturated to to the saturated t	of saturation on greases was in atty acid radica were prepared; the second based as found that the uence on the structure of hydrated unsaturated acids increases to	the fatty acid vestigated. In or the size and of first from pure on hydrogenated fature of Ca-scape Ca-greases can limit the saponificance than 40% or	stearin and claim at, cottonseed cil, tion of the fatty in greases.

kept constant. With inches increases. Coll scaps. This also increations are in agreement art. has: 3 figures.	uration of the fatty soids or by seen saturated and unsaturated accreasing dispersion of the Ca-sos loided stability is improved by races the viscosity and yield of the fith previously discovered data of	in the saponified fat is in the fibers, the ability to reduction in size of the Ca-
ASSOCIATION: none		
Subutted: 22Nov63	EHOLE OO	SUE CODE: OC. PP
NO REF SOT: COS	OTHER: 002	

LISOVSKIY, A.Ye.; KARTININ, B.N.; GUKHMAN, L.A.; CHERNOZHUKOV, N.I.

Mechanism of the action of tars on the crystallization of paraffins. Izv. vys. ucheb. zav.; neft' i gaz 8 no.6:57-61 '65. (MIRA 18:7)

1. Azerbaydzhanskiy institut nefti i khimii im. M.Azizbekova i Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti im akademika I.M.Gubkina.

GLAZOV, G.I.; KARTININ, B.N.; CHERNOZHUKOV, N.I.

Structure of the solid hydrocarbons of distillation raffinates. Khim. 1 tekh. topl. 1 masel 10 no.10:18-23 0 '65.

1. Moskovskiy ordena Trudovogo Krasnogo Znameni institut neftekhimicheskoy i gazovoy promyshlennosti im. akad. Gubkina.

L 29708-66 EWT(m)/T ...DJ SOURCE CODE: UR/0065/66/000/005/0026/0030 ACC NR: AP6015115 Chernozhukov, N. AUTHOR: Fuks, I. G.; Vaynshtok, V. V.; Kartinin, B. N.; ORG: MINKh and GP TITLE: Effect of surface active agents on the structure and strength characteristics of lithium lubricants with fillers 1 SOURCE: Khimiya i tekhnologiya topliv i masel, no. 5, 1966, 26-30 TOPIC TAGS: lubricant surface active agent, alkali metal lubricant, lithium compound, shear stress ABSTRACT: The effect of stearic acid and glycerin admixtures on the structure and properties of lithium lubricants prepared with S-220 oil with and without fillers (mica and graphite in amounts of 5, 15, and 30 wt. 1) was studied. The lubricants were prepared by thickening the oil with lithium stearate (20 wt. %). The dependence of the limit shear stress of the lubricants containing fillers on the concentration of the surfactants (stearic acid, glycerin, and water) has an extremal character: minimum limit shear stress values correspond to surfactant concentrations of

L 29708-66 ACC NR: AP6015115

up to 0.2% while maximum values correspond to higher concentrations. Critical concentrations of surfactants in the lubricants correspond to sharp differences in their structure. The presence of fillers enhances the effect of surfactants on the strength characteristics and causes the difference in the maximum values of the limit shear stress to increase (particularly when the concentration of fillers is limit shear stress to increase (particularly when the concentration of fillers is raised). Glycerin and stearic acid considerably increase the thickening effect of lithium stearate in castor oil. Orig. art. has: 4 figures and 1 table.

SUB CODE: 11/ SUBM DATE: 00/ ORIG REF: 011/ OTH REF: 000

Card 2/2 CU

KARTIN, Peter Polyneuritis caused by poisoning. Zdrav. vest., Ljubljana 24 no. 1-2:20-24 1955. 1. Nevroloska klinika medicinske visoke sole v Ljubljani-predstojnik prof. dr. Ivan Marincic. (POLYNEURITIS, etiol. & pathogen. arsenic, lead & thallium pois., clin. aspects & ther. (S1)) (ARSENICALS, pois. causing polyneuritis, clin. aspects & ther. (S1)) (LEAD POISONING. occup., causing polyneuritis, clin. aspects & ther. (S1)) (OCCUPATIONAL DISEASES, lead pois., causing polyneuritis, clin, aspects & ther. (S1)) (THALLIUM, pois. causing polyneuritis, clim. aspects & ther. (S1)) (POISONING, arsenic, lead & thallium, pois., causing polyneuritis, clin. aspects & ther. (S1))

KARTIN. Peter

Two cases of reversible atonic ileus in diseases of the central nervous system. Zdrav. vest., Ljubljana 24 no.9-10:352-354 1955.

KARTHAN, H. K.

USSR/Medicine - Meninges, Tuberculosis Medicine - Streptomycin May 1947

"An Experiment in Tuberculous Meningitis Treatment With Streptomycin," S. G. Dulitzkiy, R. M. Gotsman, M. K. Kartman, R. A. Fridman, 4 pp

"Byul Eksp Biol i Med" Vol XXIII, No 6

Discussion, with results, of treatment by suboccipital injection of streptomycin, which was found to cause a change in the usual course of the disease, with an effect upon the meningeal symptoms. However, the cerebrospinal fluid remained pathological.

PA 14T8

KARTHAN, M. K.

UJSR/Medicine - Streptomycin

Sep/Oct 43

Medicine - Tuberculous Meningitis, Therapy

"Test of the Treatment of Tuberculous Meningitis by the Suboccipital Introduction of Streptomycin," S. O. Dulitskiy, R. M. Gotsman, M. K. Hartman, R. A. Fridman, F. I. Ur'yeva, Clinic of Hosp Pediatrics, Children's Hosp imeni Filatov, Chair of Physiol, Second Moscow Med Inst imeni I. V. Stalin, 6 pp

"Rediatriya" No 5

Subject treatment proposed by Acad L. S. Shtern led in many cases to complete clinical recovery Streptomycin treatment should be continued for a long time, until complete disappearance of meningeal syndrome and cerebrospinal fluid reaction. No lasting complications were observed in cases treated. Treatment was unsuccessful in small children.

PA 34/49T60

VASTUTINSKIY, B.M.; KOGAN, V.S.; KARTMAZOV, G.N.; YAKIMENKO, L.F., diplomnitsa

Constitutional diagram of the nickel - chromium system. Fiz. met. i metalloved. 9 no. 4:558-563 Ap '60. (MIRA 14:5)

1. Fiziko-tekhnicheskiy institut AN USSR. (Phase rule and equilibrium) (Nickel-chromium alloys--Metallography)

S/126/61/012/005/023/028 E040/E435

AUTHORS: Vasyutinskiy, B.M., Kartmazov, G.N., Finkel?, V.A.

TITLE: The structure of chromium in the temperature range of

700 - 1700°C

PERIODICAL: Fizika metallov i metallovedeniye, v.12, no.5, 1961,

771~773

Previous investigations of the crystalline structure of Ni-Cr alloys in the temperature range of 1840 to 1930°C indicated the presence of a cubic, face-centred \$-phase of chromium and the possibility was suggested that chromium exists in five allotropic modifications. To verify these assumptions, a study was made of the crystalline structure of 80 x 10 \times 2 mm chromium specimens with a purity of 99,94%. The examination was made in a high-temperature X-ray camera, which was first evacuated to 10⁻⁴ mm Hg and then filled in with argon to the pressure of 300 mm Hg. The specimen was heated by passing through it electric current (up to 600 A). The examination was made in Cr anticathode radiation at a specimen-film distance of 60 mm, which ensured good resolution of the a-doublet and enabled an accurate determination of the lattice parameter. The experimental Card 1/# 2

The structure of chromium ...

S/126/61/012/005/023/028 E040/E435

set-up was designed to facilitate reflection from the (211) plane of the body-centred chromium in the whole interval of the test temperatures. The experimental results are shown in Fig.1 and 2. The results shown in Fig.1 indicate the absence of any polymorphic transformations in pure chromium within the temperature range investigated. There are 2 figures and 14 references:
11 Soviet-bloc and 3 non-Soviet-bloc. The three references to English language publications read as follows:
Ref.1: Bloom D.S., Grant N.J. J. Metals, v.3 (11), 1951, 1009;
Ref.2: Abrahamson E., Grant N.J. J. Metals, v.8, 1956, 975;
Ref.3: Stein C., Grant N.J. J. Metals, v.7, 1955, 127.

ASSOCIATION: Fiziko-tekhnicheskiy institut AN UkrSSR (Physicotechnical Institute AS UkrSSR)

SUBMITTED: April 19, 1961

Card 2/4)

KARTMAZOV, G.M.

\$/185/62/007/006/010/014 D407/D301

AUTHORS:

Vasyutyns'kyy, B. M., Kartmazov, H. M. and Finkel',

TITLE:

X-ray investigations of the structure of tantalum up

to 2700°C

PERIODICAL: Ukrayins'kyy fizychnyy zhurnal, v. 7, no. 6, 1962,

661-662

TEXT: In the present investigation, the temperature range is extended beyond 2200°C. The specimens were made of tantalum wool, 0.3 mm thick. The metal was annealed in a vacuum at 2200°C so as to remove gaseous impurities. The X-ray analysis was carried out in a high-temperature X-ray chamber in a vacuum of 1-3-10-4 mm Hg. The specimens were heated by an electric current. Only the tantalum line was observed over the entire temperature range; the parameters of the body-centered cubic lattice vary smoothly with temperature. This indicates the absence of phase transitions in tantalum. The temperature dependence of the lattice parameters of tantalum

Card 1/2

X-ray investigations ...

S/185/62/007/006/010/014

can be expressed by the empirical formula

 $a_{T^{0}C} = (3.3017 + 1.4142 \cdot 10^{-5} T + 0.8660 \cdot 10^{-8} T^{2}) kX.$

The coefficient of linear expansion was calculated by an approximate formula. The temperature dependence of the coefficient of linear expansion is shown in a figure. At temperatures above 2000°C the lattice parameter varies almost linearly with temperature, whereas the coefficient of linear expansion remains practically unchanged. There are 2 figures. The most important English-language reference reads as follows: J. W. Edwards, R. Speiser, H. L. Johnson, J. Appl. Phys., 22, 424, 1951.

ASSOCIATION: Fizyko-tekhnichnyy instytut AN UkrRSR, Kharkiv (Physi-

cotechnical Institute of the AS UkrRSR, Kharkiv)

SUBMITTED:

February 1, 1962

Card 2/2

18.1435

S/126/62/013/002/017/019 E039/E135

AUTHORS:

Vasyutinskiy, B.M., Kogan, V.S., Kartmazov, G.N.,

and Yakimenko, L.F.

TITLE:

The formation of textured layers of nitride on chromium obtained by condensation in vacuum from

the vapour phase

PERIODICAL: Fizika metallov i metallovedeniye, v.13, no.2, 1962,

310-311

TEXT: It is shown that the skin formed on the surface of chromium when heated in air or oxygen consists of two layers; an external layer of rhombic Cr₂O₃ and an internal layer of hexagonal Cr₂N. This was discovered by means of X-ray diffraction measurements. The structure of the skin formed on chromium when heated in air and in nitrogen up to 1300 °C was examined for two different samples; one was chromium cast and rolled in vacuum, and the other a sample of chromium obtained by condensation from the vapour phase. This condensation was carried out at a pressure of 10-3 mm Hg on to a molybdenum plate over a period of Card 1/2

The formation of textured layers ... \$\frac{5}{126}/62/013/002/017/019}{E039/E135}

10-15 hours forming a layer 300-500 μ thick. This layer was then annealed in air for 450 hours. The skin formed was studied by means of X-ray diffraction using K_{α} -Cr radiation to improve definition. Maximum reflection from the (110) plane was obtained with the sample placed at 560 to the incident beam, indicating that the nitride is orientated with the (110) plane parallel to that the nitride is orientated with the (110) plane parallel to the surface. In the case of chromium cast and rolled in a vacuum at a temperature of 1100 °C no structure corresponding to the nitride layer was discovered; similarly, chromium cast and rolled in air and in nitrogen at a temperature of 900-1200 °C rolled in air and in nitrogen at a temperature of 900-1200 °C showed no structure. It is observed that the structured layer of nitride on the chromium condensed from the vapour phase is of nitride on the chromium condensed from the vapour phase is much more firmly bonded to the outer oxide layer than in the case of the structureless nitride on cast chromium from which the oxide layer is easily separated.

oxide layer is easily separated.
ASSOCIATION: Fiziko-tekhnicheskiy institut AN UkrSSR (Physicotechnical Institute, AS UkrSSR)

SUBMITTED: May 22, 1961

Card 2/2

VASYUTINSKIY, B.M.; KARTMAZOV, G.N.; FINKEL', V.A.

Obtaining filiform crystals of chromium. Fiz.met.i metalloved.
14 no.5:792-793 N '62. (MIRA 15:12)

1. Fiziko-tekhnicheskiy institut AN UKrSSR. (Chromium) (Crystallization)

THE REPORT OF THE PROPERTY OF

VASYUTINSKIY, B.M.; KARTMAZOV, G.N.

Mechanism of nickel oxidation. Fizemet.i metalloved. 15 no.1:
132-134 Ja 163. (MIRA 16:2)

1. Fiziko-tekhnicheskiy institut Mi UkrSSR.
(Nickel) (Oxidation)

KARTMAZOU, B.N.

AID Nr. 983-1 5 June

STRUCTURE OF TANTALUM AT HIGH TEMPERATURES (USSR)

Amonenko, V. M., B. M. Vasyntinskiy, G. N. Kartmazov, Yu. N. Smirnov, and V. A. Finkel'. Fizika metallov i .metallovedeniye, v. 15, no. 3, Mar 1963, 444-449.

S/126/63/015/003/016/025

The Physicotechnical Institute, Academy of Sciences USSR, has studied the structure of Ta at 20 to 2600°C and the effect of vacuum heat treatment on the structure and properties. X-ray diffraction patterns obtained with a high-temperature x-ray camera in a vacuum of 3·10⁻⁵ mm Hg showed that the body-centered cubic structure of Ta remains unchanged at all temperatures tested. The lattice parameter "a" increases from ~3.3030 kX at 20°C to 3.3750 kX at 2600°C. The coefficient of thermal expansion was calculated from "a." Annealing in a vacuum of 3·10⁻⁵ to 1·10⁻³ mm Hg at temperatures up to 2200°C was found to increase "a" and microhardness. Curves of these two parameters versus temperature show maxima under all conditions tested; their magnitude increases with increasing pressure. With a constant annealing

Card 1/2

AID Nr. 983-1 5 June

STRUCTURE OF TANTALUM [Cont'd]

s/126/63/015/003/016/025

time of 10 min these maxima occur at 1600° to 1800° C under all pressures tested. With prolonged annealing the maxima are shifted toward lower temperatures, occurring at ~ $1500-1600^\circ$ C with annealing for 6 hrs. Both phenomena are attributed to gas absorption by the Ta. X-ray diffraction patterns of a specimen annealed for 15 hrs showed the lines of two high-temperature modifications of Ta₂O₅ at 1460 to 1490°C and 1500 to 1540°C. [ND]

Card 2/2

ENT(m)/ENP(w)/ENA(d)/ENP(t)/ENP(b) [JP(c)/ASD(m)-3 JD/JU L 17700-65 \$/0126/64/017/006/0892/0897 ACCESSION NR: AP4042048 AUTHOR: Vasyutinskiy, B, M.; Kartmazov, G. H.; Papirov, I. I. TITLE: Surface structure and properties of actcular crystals of chromium SOURCE: Fizika metallov i metallovedeniya, v. 17, no. 6, 1964, 892-TOPIC TAGS: ecicular crystal, whisker surface structure, chromium strength, growth mechanism, chromium ABSTRACT: Pointing out that the formation and growth of acicular crystals is far more complex than indicated by earlier investigators, the authors discuss surface structure, strength characteristics, and growth mechanism of Cr crystals with a maximum cross section of $20\times10^{-6}~\text{mm}^2$ produced by vacuum condensation. Examination under a standard optical microscope showed that crystals grow in steps; the mean height of individual steps varied from 1700 to 2300 A. The growth begins at the basal face and procesds toward the apex. Under Card

L 17700-65

ACCESSION NR: AP4042048

2

an electron microscope stepped and complex profiles as well as smooth surface regions were also identified. Failure in tensile tests occurred by a cleavage and was not preceded by conspicuous plantic deformation. Investigations showed that the thicker crystals had a lower strength. The strength reached 590 kg/mm² in crystals with nacroscopic growth steps. Since appreciable strength was observed in crystals both with a smooth surface and with growth steps, the authors assume that the latter are not formed as a result of dislocation. The discontinuation of axial growth is attributed to the mechanism of the development of steps on the lateral face. Apparently, with each new layer that forms at the basal face and reaches the apex, the supply of crystallizing substance to the mobile whisker end is reduced by the diffusion of particles toward the step of the next layer. This was corroborated by the fact that thin crystals possess a smaller number of growth steps than thick specimens formed under analogous conditions. Moreover, the same crystal may be rather smooth near the apex and rough in the thicker portion. The changes in the axial growth under conditions of temperature control were caused by the changes in the growth mechanism. The contribution of A. A. Chernov is gratefully acknowledged. Original art, has: 4 figures, 2 formulas, and 1 table.

Card 2/3

ACCESSION NRI AP4042048		Solven mertie de este foreste se	
ASSOCIATION: Fiziko-takh Institute, AN UkrSSR)	nicheskiy institut A	M UkrSSR (Physicotechnicel)	
SUBMITTED: 03Ju163	ENCL: 00	SUB CODE: SS, IC	
NO REF SOV: 005	OTHER: 010		
10 A			
Card 3/3			

CCESSION NR: AP5017281	UR/0181/65/007/007/1944/1951
JTHOR: Shvachko, V. I.; Nadykto, B. T.; Fogel artmazov, G. N.	하다 하게 되었다. (1) 12 - 14 이 원리 (1) 11 (1) 12 (1) 12 (1) 12 (1) 14 (1) 14 (1) 14 (1) 14 (1) 14 (1) 14 (1) 14 (1)
rmr v. 11. 1	studying the interaction of oxygen
ith the surface of <u>niobium</u>	
DURCE: Fizika tverdogo tela, v. 7, no. 7, 196	5, 1944-1951
OPIC TAGS: ion emission, niobium, oxidation	
STRACT: The method of secondary ion-ionic emposition of oxides which form on the surface tygen. It was established that in the temperation oxides form on the surface of niobium who essure of approximately 10 mm of mercury: I imperature interval from 1200 to 2000°C the surface of Nb0 starts at 1400°C and then increases the 20-800°C temperature range Nb02 undergoes do on Nb02 + Nb0 + 0 with the desorption of oxygen	of niobium when it interacts with tule range from 20 to 1200°C the folich is in an oxygen atmosphere at a NbG, NbO2, Nb2O3, and Nb2O5. In the race of Nb contains only NbO and he formation and subsequent evaporatory rapidly with temperature. In ecomposition according to the reac-

CCESSION NR: AP5017281		
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SSOCIATION: Khar'kovskiy State University)	gosudarstvennyy universitet	im. A. H. Gor'kogo (Kharkov
UBMITTED: 27Nov64	ENCL: 00	SUB CODE: GC, MM
O REF SOV: 003	. OTHER: 001	

EWT(m)/EPF(n)-2/EWP(t)/ETI IJP(c) JD/MM/JG/GD 28408-66 SOURCE CODE: UR/0000/65/000/000/0077/0082 ACC NR: AT5027942 AUTHOR: Ivanov, V. Ye.; Nechiporenko, Ye. P. (Dr. of Technical Sciences); Osipov, A. D.; Vasyutinskiy, B. M.; Kartmazov, G. N. 21 B+1 ORG: none TITLE: Thermal stresses in chromium coatings on molybdenum SOURCE: Seminar po sharostoykim pokrytiyam. Leningrad, 1964. Zharostoykiye pokrytiya (Heat-resistant coatings); trudy seminara. Leningrad, Izd-vo Nauka. 1965, 77-82 TOPIC TAGS: chromium plating, vapor plating, molybdenum, heat effect, internal stress, adhesion, thermal stress ABSTRACT: Previous studies (FMM, IX, 4, 558, 1960) showed that coatings obtained by the condensation in vacuum of Cr veporal on the surface of Mo semples had good protective properties, but that their service life decreased considerably when they were subjected to temperature fluctuations. A study was made on the effect of temperature on internal stresses in diromium coatings on molybdenum produced Card 1/3

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ACC NR: AT5027942

in various vacuum conditions and having various strengths of adhesion of the coating to the substrate. The value of stress (o) was determined from changes in the deflection (d) of the plated samples (100 x 5 x 2mm) by using the formula $\sigma = 4 \text{ E h}_2^3 \text{ d}/31^2\text{h}_1 \text{ (h}_1 + \text{h}_2)$, where E is the Young modulus, 1 is the length of the coated part of the sample, and h₁ and h₂ are the thicknesses of the coating and the base metal, respectively. The curves of deflection (in ma) vs temperature were plotted during the experiments. The changes in the slope of the curves (inflections), corresponding to the conversion of elastic into nonelastic deformations, were observed during heating and cooling of the samples. Nonelastic deformations in the low-temperature range (\le 4000) were formed at the critical stress d=8 kg / mm2. The value of the critical stress could be controlled either by the deformation of the coating itself or by the strength of adhesion of the coating to the substrate. Experiments with the coatings of various degrees of adhesion strength (strength of adhesion was changed by applying the coatings to the surface of Mo oxidized to various degrees, or by increasing the roughness of the Mo surface) proved that the value of the critical stress did not depend on the adhesion strength and was controlled by the deformation of the coating itself. The adhesion strength of coatings applied to the surfaces of oxidized

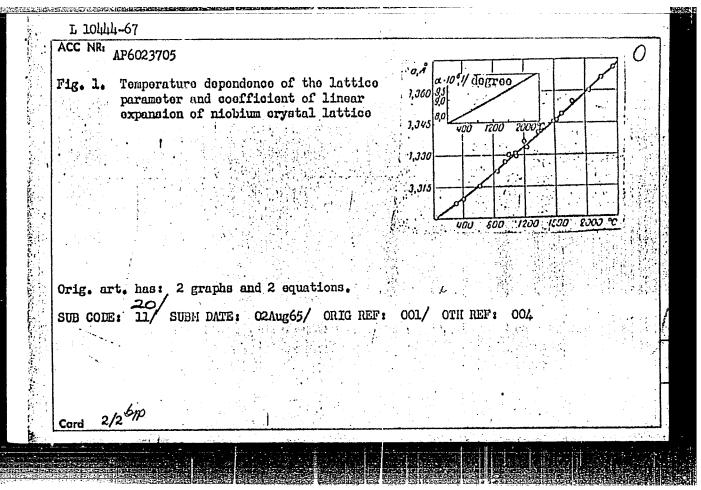
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and none	oxidized Mo . The curve s applied un	were about es plotted inder various ed in 10 ⁻³ v um. Crig. s	for the t values vacuum fa	of vacuum iled at sm	/10-5 - 1	han the sam	showed tha	t	
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CIA-RDP86-00513R000720920004-7

I 10hhh-67 EWI(m)/EWP(t)/ETI IJP(c) JI/JO SOURCE CODE: UR/0126/66/021/004/0620/0621 ACC NRI AP6023705 AUTHORS: Vasyutinakiy, B. M.; Kartmazov, G. N.; Smirnov, Yu. N.; Finkel', V. A. ORG: Physico-Technical Institute, AN UkrSSR (Fiziko-tekhnicheskiy institut AN UkrSSR) TITLE: Investigation of the orystalline structure of niobium and vanadium at high temperatures SOURCE: Fizika metallov i metallovedeniye, v. 21, no. 4, 1966, 620-621 TOPIC TAGS: niobium, vanadium, x ray spectroscopy, crystal lattice parameter ABSTRACT: The crystal structure of niobium and vanadium was determined as a function of the temperature. The experimental procedure was described earlier by V. M. Amonenko, B. M. Vasyutinskiy, G. N. Kartmazov, Yu. N. Smirnov, and V. A. Finkel' (FMM, 1963, 15, 444). The experimental results are presented graphically (see Fig. 1). It was found that the temperature dependence of the lattice parameters obeyed the following relationship 548.0:546.881/882 UDC: Card 1/2



GREKHOV, N.T., inzh.; PISTSOV, Yu.N., inzh.; ZERNITSKIY, V.G., inzh.; KARTOKHIN, I.I.

Raising heat loads during the combustion of low-grade fuels.

Obeg. i brik.ugl. no.28:58-68 '62. (MIRA 17:4)

L 17415-66 EWT(m)/EWA(d)/EWP(t) JD/HW

APPROVED FOR RELEASE: 06/13/2000

ACCESSION NR: AP5013676

SOURCE CODE: UR/0182/65/000/005/0001/0005

AUTHOR: Polukhin, P.I.; Teterin, P.K.; Luk'yanov, V.P.; Vorontsov, V.K.;

Kartoshkin, A.A.

ORG: none

18,44.55

3 9 0

TIME: Stress deformation state in rolling circular blanks

SOURCE: Kuznechno-shtampovochnoye proizvodstvo, no. 5, 1965, 1-5

TOPIC TAGS: stress analysis, strain, material deformation, circular forging, circular blank, blank, reduction, tensile stress, applied load, load, mandrel diameter effect, ram form effect, reduction degree effect

ABSTRACT: This study was carried out because there is an increasing need of circular forgings from difficultly deforming stainless; and heat resistant, steels and alloys. The stress deformation state of the metal in the area of deformation during the rolling of the circular blanks on a mandrel was investigated with respect to the form of the working surface of the ram (plane, concave, and convex), diemeter of the mendrel, and degree of reduction. The experimental results show

Card 1/2

CIA-RDP86-00513R000720920004-7"

L 17415-66

ACCESSION NR: AP5013676

that 1) the process of reduction of circular blanks on a mandrel is accompanied by the occurrence of tensile stress in the deformation area perpendicular to the applied load, 2) the tensile stress and the zone it affects in the deformation area markedly decrease with increase in the degree of reduction, and 3) an increase in the mandrel diameter and application of a concave ram tends to decrease the area of action of the tensile stress as well as of its absolute value. Orig. art. has: 4 formulas, 5 figures, and 3 tables.

SUB CODE: 13,11 SUBM DATE: 00 ORIGINEF: 004 OTH REF: 000

Card 2/2 nst

SOV/124-58-8-9095

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 8, p 112 (USSR)

AUTHOR: Kartoshkin, L.I.

TITLE: On the Free Shearing Vibrations of a Stepped-section Canti-

lever Beam (O svobodnykh kolebaniyakh sdviga konsol'nogo

sterzhnya stupenchatogo secheniya)

PERIODICAL: Dokl. AN UzSSR, 1957, Nr 3, pp 9-14

ABSTRACT: The differential equations for the free shearing vibrations

of a beam are solved by using the Fourier method to separate

the variables.

Ye.I. Buzin

Card 1/1

S/167/61/000/001/002/004 A104/A133

10.9110 also 1103, 1327

Kartoshkin, L. I. AUTHOR:

Shear oscillations of some stepped rods TITLE:

Izvestiya Akademii nauk UzSSR. Seriya tekhnicheskikh nauk, no. 1, PERIODICAL:

1961, 51 - 57

The author reviewing the effect of the dynamic load on structures, investigates the transverse shear oscillations of two step cantilever rods with TEXT: a varying reduced elasticity module and volumetric weight, caused by instantaneous finite value pulses. In the case of nonhomogenous individual structural elements the reduced volumetric weight is determined by

 $\chi_{\text{red}}(x) = \frac{\sum_{i} \chi_{i}(x) F_{i}(x)}{F(x)}$

where $\gamma_{\rm red}$ = reduced volumetric weight, γ_1 = volumetric weight of the individual structural element, F_1 = cross-sectional area of the individual element, and F = operational area of the cross section. [Abstracter's note: subscript red (reduced) is a translation of the original np (privedennyy)] The linear mass is

Card 1/9-7

CIA-RDP86-00513R000720920004-7" APPROVED FOR RELEASE: 06/13/2000

22328 S/167/61/000/001/002/004 A104/A133

Shear oscillations of ...

$$m(x) = \frac{\mathcal{Y}_{red}(x) F(x)}{g}$$

A constant section rod consisting of two sectors of different materials is treated in the same way as a uniform stepped rod, by adjusting the cross-section area of the lower F_1 to the section area of the upper F_2 , and results in

$$k^* = \left(\frac{F_1}{F_2}\right)^* = \frac{G_2}{G_1}$$

Thus the modulus of rigidity of one area is expressed by the modulus of the other area, i.e. $G_2 = k^* G_1$ (2) where G_1 and G_2 are reduced moduli of rigidity of the corresponding lower and upper sections. In case of a stepped rod of different materials the rated correlation of the cross sections is expressed by

$$k_{d} = \left(\frac{F_{1}}{F_{2}}\right)_{d} = kk* \tag{3}$$

where k = given cross section ratio of the rod sections. [Abstracter's note: subscript d (different) is a translation of the original ρ (raznoye)] The derivation of the integral equation on transverse shear oscillations of the nonhomogenous Card 2/9, 7

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Shear oscillations of ...

variable section of the rod is based on the law momentum change. As) and F change only during the transition from one sector to another the integral equation is

$$\int_{\mathcal{F}_{1(2)}} F_{1(2)} \left(\frac{\partial u}{\partial t} dx + a_{1(2)}^2 \frac{\partial u}{\partial x} dt \right) = 0, \quad (6) \quad \text{where } a_1 = \sqrt{\frac{g}{1}} \quad \text{and } a_2 = \sqrt{\frac{g}{1}} = 0$$

= propagation velocity of the shearing waves, constant in the lower and the upper sector of the rod. For integration along the closed contour Z or the plane (x,t) the positive and negative characteristics passing along the plane, corresponding to the lower sector of the rod, are determined by

$$\frac{dx}{dt} = \pm a_1 \text{ and expressed by } \frac{\partial u}{\partial t} dx + a_1^2 \frac{\partial u}{\partial x} dt = \pm a_1 du, \quad (7)$$

and in respect of the upper sector by $\frac{dx}{dt} = \pm a_2$ expressed by

$$\frac{\partial u}{\partial t} dx + a_2^2 \frac{\partial u}{\partial x} dt = \pm a_2 du. (8)$$

coordinates of plane point (x, t) corresponding to the lower sector are determined by $\xi - a_1 \tau = x - a_1 t$,

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 $\xi + \hat{a}_1 = x + a_1 t,$

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Shear oscillations of ...

and those of the upper sector by $\xi - a_2 \tau = x - a_2 t$,

$$\xi + a_2 = x + a_2 t.$$

The ratio of linear masses constant within the limits of each sector is $\frac{m_1}{m_2} = \frac{r_1 F_1}{r_2 F_2} = d$

and therefore $\frac{F_1}{F_2} = d \frac{\gamma_2}{\gamma_1} = k$, $\gamma_2 = \frac{k}{d} \tilde{\gamma}_1$

In case of rod sectors of different materials k_d (Fq.3) is applied and 7, and 7 are altered accordingly. The specific example presents the calculation of a rod at $n = \frac{r_0}{r_1} = 1.0$

and the operating plane of the cross section of the lower sector twice the size of the upper sector (K=2), while the uniformly distributed mass on the lower sector is only d=1/2 compared to the upper sector. Analogous examples are frequently found in industrial and housing structures. The shearing functions u(x,t) caused by an instantaneous finite value pulse at point M(x,t) of plane (x,t) are determined as

 $\alpha_1 = \frac{1}{a}$, $\alpha_2 = \frac{1}{a_2}$ (Fig. 1a).

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Shear oscillations of ...

By applying Eqs. (7), (8) and (6) followed by integration along the segments of each contour three further equations are obtained whose joint solution gives

$$u_{M} = u(x, t) = \frac{1}{5} \frac{S}{a_{2}m} \left[2 \left(4x - l - 2a_{2}t \right) + a_{2}t \right]$$

 $u = \frac{2}{5} \frac{s}{a_1 m} \left[2 (4x - l - a_1 t) + \frac{1}{2} a_1 t \right].$

if a_2 is expressed by a_1 . The tangent stress is

$$\tau = \beta G \frac{\partial u}{\partial x} = 3.2 \beta G \frac{S}{a_1 m}$$
 (10)

In case of different materials modulus of rigidity G should be substituted by K*G, (Eq. 2). Eqs. (9) and (10) apply to all points of area I (Fig. 1b). Eq. (6) applied to closed contours of Figure 1c produces $u = \frac{2}{5} \frac{S}{a_1 m} \times \left[x + \frac{3}{2} (l - a_1 t) \right],$

$$u \stackrel{\perp}{=} \frac{2}{5} \frac{s}{a_1 m} \times \left[x + \frac{3}{2} \left(l - a_1 t \right) \right],$$

 $\tau_2 = 0.4 \, \beta G \, \frac{S}{a_1 m} \,. \quad (12)$

in respect of area III Based on the corresponding closed contours in respect of Card 5/97

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Shear oscillations of ...

points in areas III, IV, and V (Fig. 1b) and using Eq. (6) and the joint solution of derived equations, the shear oscillation and stresses of other plane points are determined. Figure 2a shows shearing coefficients at assumed n, k and d values divided by

$$\frac{S}{a_1 m}$$
 1

calculated for moments of time

$$0 \le t \le \frac{3}{2} d_1 = \frac{3}{4} d_2$$
; with a range of $t = \frac{1}{4} a_1 = \frac{1}{8} a_2$.

Epures of tangent stresses divided by β G $\frac{S}{\epsilon_1 \text{ m}}$ and appearing within analogous

moments of time are shown in Figure 2b. Figure 3 shows tangent stresses $\tilde{\iota}:\beta G \frac{s}{a \text{ m}}$ obtained by equations given in Reference 3 (Kartoshkin, L. I., DAN, UzSSR, 1958.

 $0 \le t \le \mathcal{A} = \frac{1}{a}$ and ranges of $t = \frac{1}{4} \Im$ in regard of rods with ratios n = 1.0 and k = 2.0, i.e. linear mass in proper proportion to the cross-sectional area throughout the entire height of rod, i.e.

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Shear oscillations of...

$$\frac{m_1}{F_1} = \frac{m_2}{F_2} = K = d = const.$$

A comparison of Figures 2b and 3 shows that the difference in the propagation velocity of shear oscillations ($d \neq k$) has a strong effect on the tangent stress coefficient during the transition of the wave from the lower to the upper sector. Thus a 100% decrease of velocity in the upper sector increases the stresses by 2.4 times. At d > k the propagation velocity of waves in the upper section is higher and the angle gradient towards the axis t of the characteristic passing over the corresponding sector is greater. For the rest the solution will be the same as described in this article. There are 3 figures and 3 Soviet-bloc references.

ASSOCIATION: Institut; mekhaniki AN, UzSSR (Institute of Mechanics of the Academy

of Sciences UzSSR)

SUBMITTED: May 12, 1960

Card 7/97

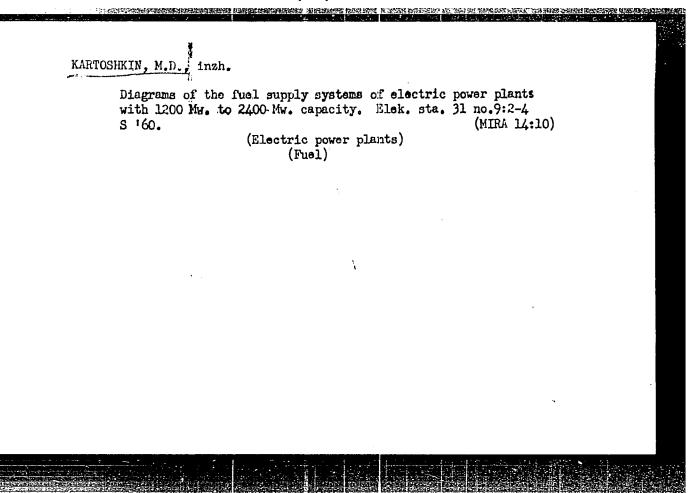
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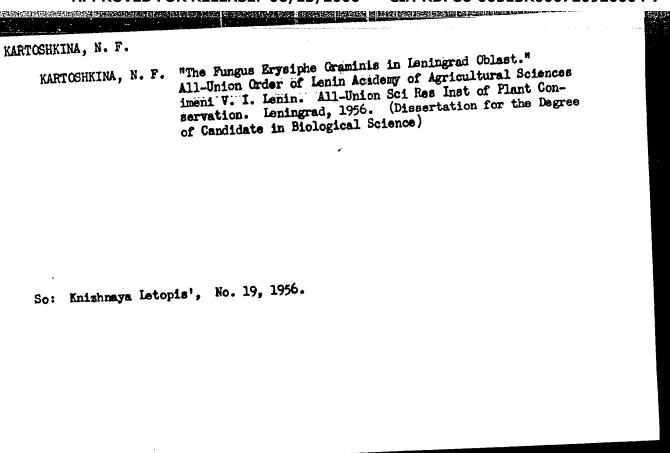
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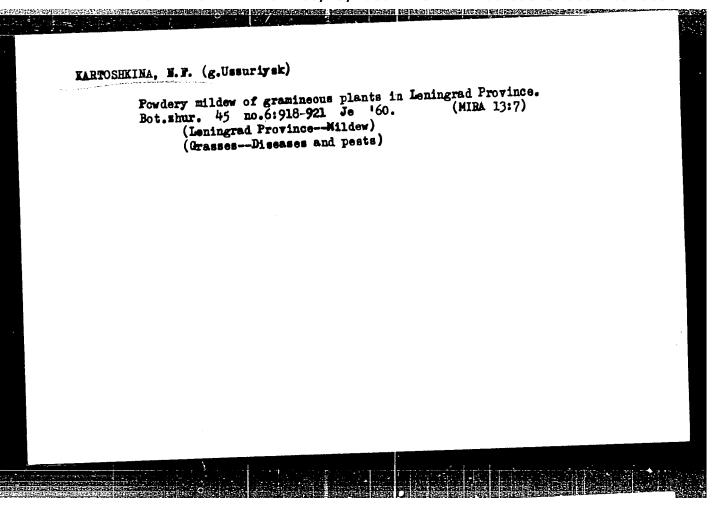
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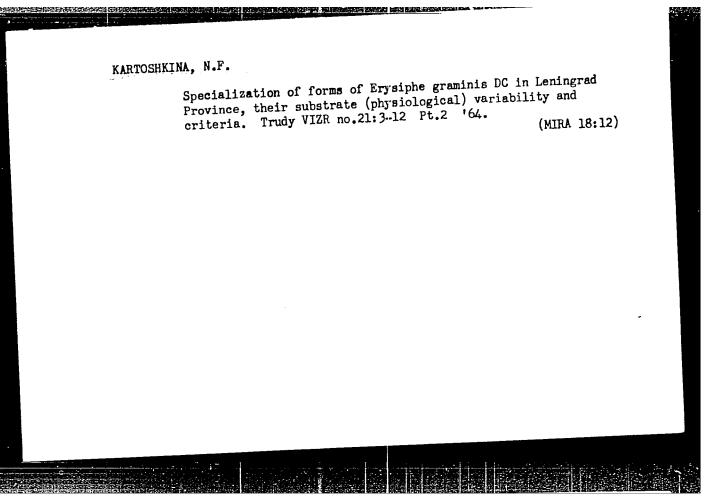
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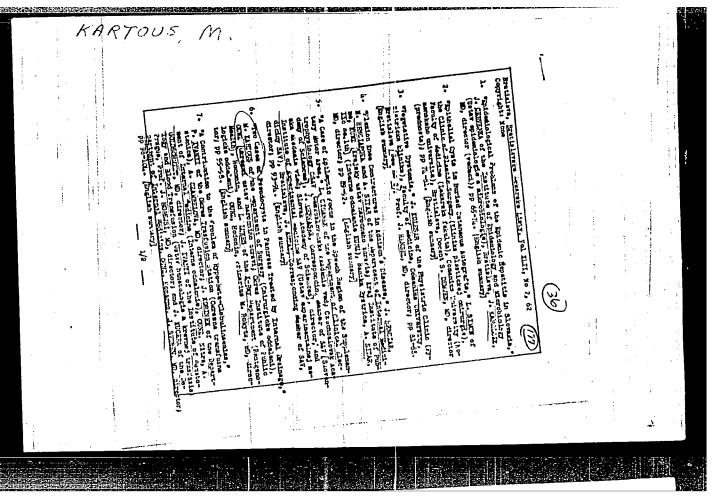
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APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720920004-7"

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2 Cases of pseudocysts of the pancreas treated by internal drainage. Bratisl. lek. listy. 42 no.2:95-98 .62.

1. Z Chirurgickeho oddeleni OUNZ v Hodonine, prednosta prim. MUDr.
J. Drobny a z Rentgenologickeho oddeleni OUNZ v Hodonine, prednosta
prim. MUDr. M. Rokyta.
(PANCREAS dis) (CISTS ther) (DRAINAGE)

	10 M. 15 ME
ACC NR: AP6034096 (N) SOURCE CODE: UR/0089/66/021/004/0292/0292 AUTHOR: Kartovitskaya, M. A.; Rubanov, S. M.; Shkombatova, L. S.	
ORG: none TITLE: Efficiency of boration of metal-water shields SOURCE: Atomnaya energiya, v. 21, no. 4, 1966, 292 SOURCE: Atomnaya energiya, v. 21, no. 4, 1966, 292 TOPIC TAGS: reactor shielding, borate, boron compound, radiation dosimetry TOPIC TAGS: reactor shielding, borate, boron compound, radiation dosimetry TOPIC TAGS: reactor shielding, borate, boron compound, radiation dosimetry ABSTRACT: This is a summary of paper No. 100/3736, submitted to the editor and filed ABSTRACT: This is a summary of paper No. 100/3736, submitted to the editor and of the not published in full. It deals with the dependence of the weight and dimensional but not published in full. It deals with the dependence of the weight and on the content of boron and on the characteristics of iron-water shields. Boration is shown to lead to re- place where the boron is introduced in the shield. Boration in thickness is on the order distribution of the components of the total dose, but is effective only up to 0.5 wt.% place where the boron is introduced in the shields. The reduction in thickness is on the order distribution of the case of lead. The reduction of weight is 1.5 - 2% in the case of lead of boron in the case of lead. The reduction of weight is 1.5 - 2% in the case of lead of boron in the case of lead. The reduction of weight is 1.5 - 2% in the case of lead of boron in the case of lead. The reduction of weight is 1.5 - 2% in the case of lead of boron in thickness is on the order distribution of the case of lead. The reduction of weight is 1.5 - 2% in the case of lead of boron in the case of lead. The reduction of weight is 1.5 - 2% in the case of lead of boron in the case of lead. The reduction of weight is 1.5 - 2% in the case of lead of boron in the case of lead. The reduction of weight is 1.5 - 2% in the case of lead of boron in the case of lead. The reduction of weight is 1.5 - 2% in the case of lead of boron in the case of lead of boron in the case of lead. The reduction is shown to be produced when the case of lead o	
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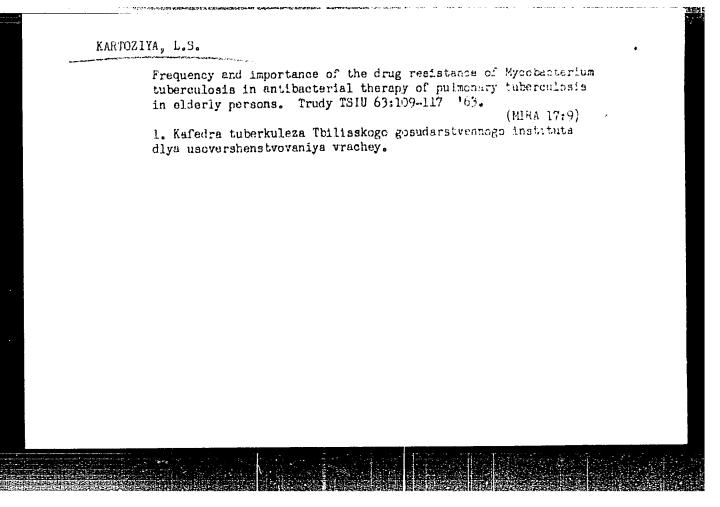
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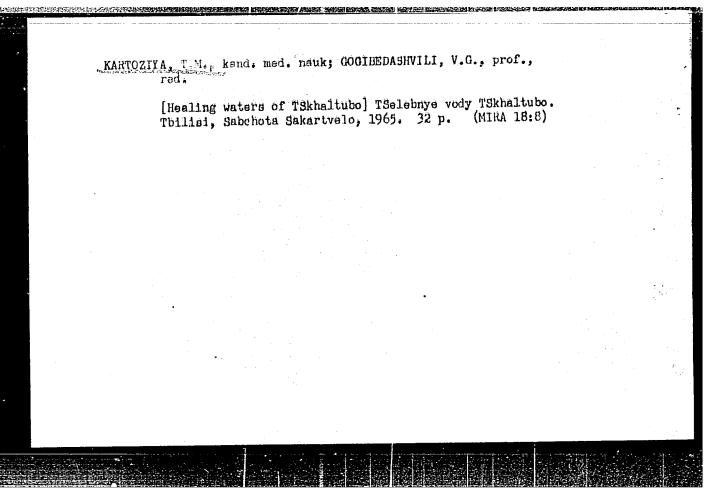
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